REMARKS

Please enter the foregoing preliminary amendment prior to examination of the present application. Applicant respectfully submits that this Amendment presents no new matter. Early passage to issue is requested.

Respectfully submitted,

Gordon F. Sieckmann, Reg. No. 28,667

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Express Mail No.: EV504788940US

Atty. Dkt. No. 15060-42

IN THE DRAWINGS

Applicants respectfully request approval of the following drawing changes.

Figures 2, 10, 13, 21, 23, 26, 28, 31 and 33 are being amended to remove excessive text. Applicants hereby submit an "Annotated Copy" of Figures 2, 10, 13, 21, 23, 26,28, 31 and 33 showing the requested changes in red permanent ink, and a "Replacement Sheet" incorporating the changes to Figures 2, 10, 13, 21, 23, 26, 28, 31 and 33.

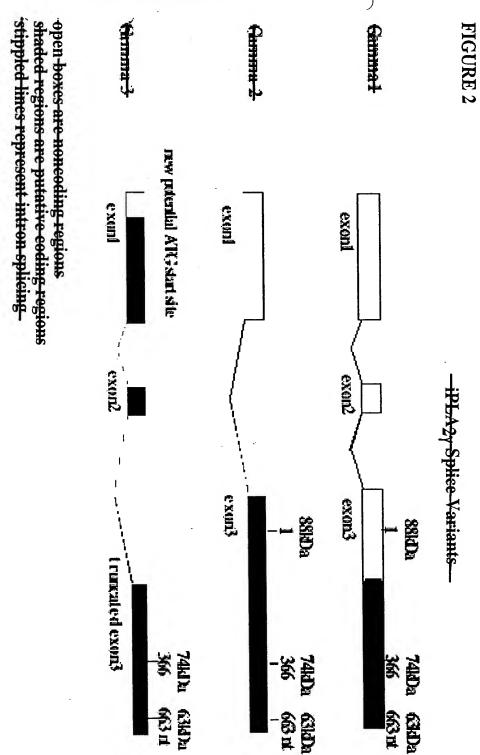
No new matter has been added.



Title: CALCIUM INDEPENDENT PHOSPHOLIPASE A₂ γ POLYNUCLEOTIDES AND POLYPEPTIDES AND METHODS THEREFOR Inventor: Richard W. Gross et al. Docket No.: 15060-42 Gordon F. Sieckmann, Phone 314-621-5070

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ANNOTATED MARKED UP



Docket No.: 15060-42 Gordon F. Sieckmann, Phone 314-621-5070

ANNOTATED MARKED UP

GAA AAG GCA AGT TGT TCA GT gtgctt..tcgcaag

Q

Exon 6 GTG AGT

Intron 5

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Petential Alternative Exon 5 Splice Variant of Human iPLA27—

FIGURE 10

A. Reported Splice Sequence (gc/ag)

Exon 5 (SEQ ID NOS 43-44) .CAG CGA GAA AAG Q R E K

Intron 5

gcaagit...ttgtag

ATT ATC GCA AGG GTG AGT Exon 6 (SEQ ID NOS 45-46)

(Tanaka et al

വ

The splice variant gt/ag occurs with a frequence of 98.71% among genes. However, variant "B" iPLA27 sequence has not been cloned.

has been reported in the literature,

sported in GenBank, and cloned in our lab.

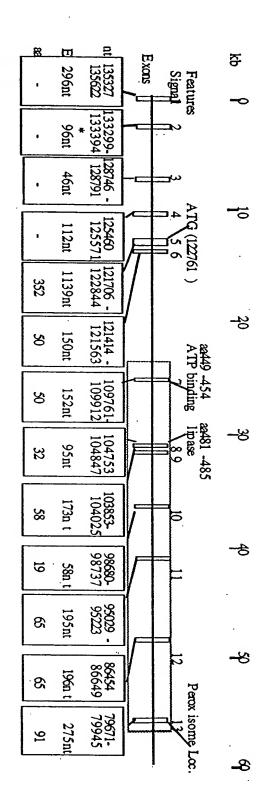
Title: CALCIUM INDEPENDENT PHOSPHOLIPASE $\rm A_2\gamma$ POLYNUCLEOTIDES AND POLYPEPTIDES AND METHODS THEREFOR

Inventor: Richard W. Gross et al. Docket No.: 15060-42 Gordon F. Sieckmann, Phone 314-621-5070

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to and has been also been reported as 133114 and 133464 in CenBank



IGURE 13

Title: CALCIUM INDEPENDENT PHOSPHOLIPASE A₂γ POLYNUCLEOTIDES AND POLYPEPTIDES AND METHODS THEREFOR

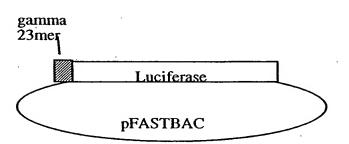
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FIGURE 21

Additionally, iPLA27 sequences were inserted by ligation of 15-23mer annealed phosphorylated eligonucleotide pairs 5' of full length luciferase coding sequence elened into pFASTBAC via Notl/XbaI restrictions and then luciferase activity of recombinant protein produced in the Sf9 system was subsequently measured using the Luciferase Assay System of Promega.



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Gordon F. Sieckmann, Phone 314-621-5070

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tcgacttaaaacagaaaaacatcaaa gaattttgtctttttgtagtttgtccgg	ယ ယ (9 ()	SEQ ID NO: 35	SEO ID NO:	
tcgacgaaaagtatcggatagtggctgg gcttttcatagcctatcaccgaccccgg	ω ω 4 8	No :	SEQ ID	
tcgactaagccaagttcccaaattttaa gattcggttcaagggtttaaaattccgg	ນ ພ 7	ö	SEQ ID	
atgatttcacgtttagctcaatttaagccaagttcccaaattttaagaaaagtatcggatagtggctggttaaaaacagaaaaacatcaaaca tcgacctgatttcacgtttagctcaatt ggactaaagtgcaaatcgagttaaccgg	: 10 : 32 tcg : 36	N N N	OL DES OI DES	

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FIGURE 23. iPLA, Repressor Region

Phosphorylated oligo pairs for repression of iPLA, / in the luciferase expression system:

tcgacttaaaacagaaaaacatcaaaca

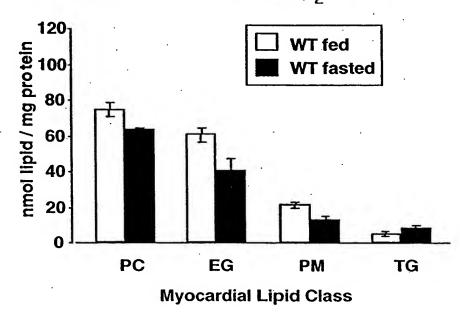
Title: CALCIUM INDEPENDENT PHOSPHOLIPASE $A_2\gamma$ POLYNUCLEOTIDES AND POLYPEPTIDES AND METHODS THEREFOR

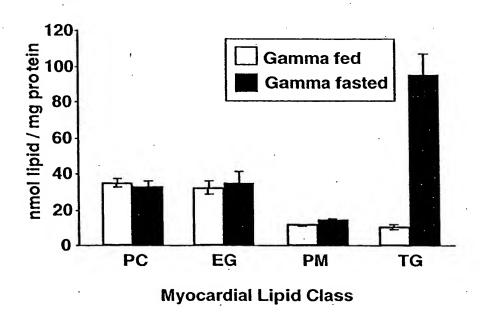
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Fig. 26 Myocardial TAG Content of Fasted WT vs iPLA 7 Transgenic Mice





-PG -- Phosphatidylcholine -EG= Ethanolamine Glycerophospholipids-

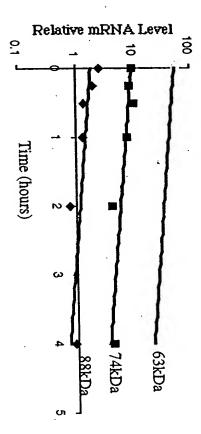
PM-- PLasmalogen

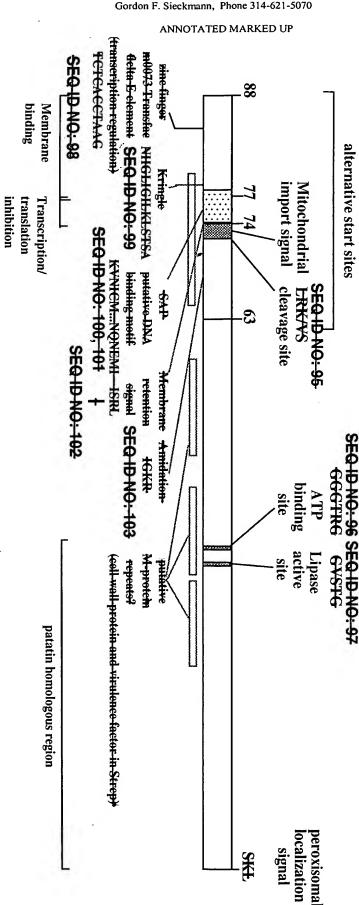
TG - Triacylglyceride

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FIGURE 33

Promoter Analysis of iPL/

